

**EXHIBIT 8**

**TCB****GRANT OF EQUIPMENT  
AUTHORIZATION****TCB****Certification****Issued Under the Authority of the  
Federal Communications Commission****By:****UL Verification Services Inc. (formerly UL  
CCS)  
47173 Benicia Street  
Fremont, CA 94538****Date of Grant: 09/12/2017****Application Dated: 08/21/2017****Apple Inc.  
One Apple Park Way  
Cupertino, CA 95014****Attention: Marc Douat , EMC Engineer****NOT TRANSFERABLE**

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is  
VALID ONLY for the equipment identified hereon for use under the Commission's Rules  
and Regulations listed below.

**FCC IDENTIFIER: BCG-E3159A****Name of Grantee: Apple Inc.****Equipment Class: Part 15 Spread Spectrum Transmitter****Notes: Smartphone**

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
CC	15C	2402.0 - 2480.0	0.106		

Power output listed is conducted. For satisfying FCC RF exposure compliance requirements, body-worn operations are restricted to belt-clips, holsters or similar accessories that have no metallic component in the assembly and must provide at least 5 mm separation between the device and the user's body. The highest reported SAR for head, body-worn accessory and simultaneous transmission exposure conditions are 0.37 W/kg, 0.50 W/kg and 1.54 W/kg, respectively.

CC: This device is certified pursuant to two different Part 15 rules sections.

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VALID ONLY for the equipment identified hereon for use under the Commission's Rules  
and Regulations listed below.**FCC IDENTIFIER: BCG-E3159A****Name of Grantee: Apple Inc.****Equipment Class: Part 15 Low Power Communication Device Transmitter****Notes: Smartphone****Grant Notes****CC****FCC Rule Parts****15C****Frequency  
Range (MHZ)****13.56 - 13.56****Output  
Watts****Frequency  
Tolerance****Emission  
Designator****CC: This device is certified pursuant to two different Part 15 rules sections.**

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**FCC IDENTIFIER: BCG-E3159A****Name of Grantee: Apple Inc.****Equipment Class: Digital Transmission System****Notes: Smartphone**

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
CC	15C	2402.0 - 2480.0	0.107		
CC HC MO	15C	2412.0 - 2472.0	0.991		

Power output listed is conducted. This device has 20 MHz bandwidth mode. For satisfying FCC RF exposure compliance requirements, body-worn operations are restricted to belt-clips, holsters or similar accessories that have no metallic component in the assembly and must provide at least 5 mm separation between the device and the user's body. The highest reported SAR for head, body-worn accessory, wireless router, and simultaneous transmission exposure conditions are 1.17 W/kg, 1.07 W/kg, 1.07 W/kg, and 1.56 W/kg, respectively. HAC Rating M3/T4-2011. Some T Coil tests have not been performed as permitted by the Commission policy.

CC: This device is certified pursuant to two different Part 15 rules sections.

HC: This equipment complies with the hearing aid compatibility technical requirements of Section 20.19 of the rules.

MO: This Multiple Input Multiple Output (MIMO) device was evaluated for multiple transmitted signals as indicated in the filing.

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FCC IDENTIFIER: BCG-E3159A

Name of Grantee: Apple Inc.

Equipment Class: Unlicensed National Information Infrastructure TX

Notes: Smartphone

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
38 CC HC MO	15E	5180.0 - 5240.0	0.176		
38 CC HC MO	15E	5260.0 - 5320.0	0.175		
38 CC HC MO	15E	5500.0 - 5720.0	0.214		
38 CC HC MO	15E	5745.0 - 5825.0	0.245		

Power output listed is conducted. This device has 20 MHz, 40 MHz and 80 MHz bandwidth modes. For satisfying FCC RF exposure compliance requirements, body-worn operations are restricted to belt-clips, holsters or similar accessories that have no metallic component in the assembly and must provide at least 5 mm separation between the device and the user's body. The highest reported SAR for head, body-worn accessory, wireless router, and simultaneous transmission exposure conditions are 1.20 W/kg, 1.13 W/kg, 1.13 W/kg, and 1.54 W/kg, respectively. HAC Rating M3/T4-2011. Some T Coil tests have not been performed as permitted by the Commission policy.

38: This device has shown compliance, in all grant-listed U-NII sub-bands, with the new rules for U-NII devices adopted under Docket No. 13-49 and may be marketed, manufactured or imported after the June 1, 2016 transition deadline.

CC: This device is certified pursuant to two different Part 15 rules sections.

HC: This equipment complies with the hearing aid compatibility technical requirements of Section 20.19 of the rules.

MO: This Multiple Input Multiple Output (MIMO) device was evaluated for multiple transmitted signals as indicated in the filing.

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FCC IDENTIFIER: BCG-E3159A

Name of Grantee: Apple Inc.

Equipment Class: PCS Licensed Transmitter held to ear

Notes: Smartphone

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
HC	22H	824.0 - 849.0	0.865	2.5 PM	244KGXW
HC	22H	824.0 - 849.0	0.255	2.5 PM	247KG7W
HC	24E	1850.0 - 1910.0	0.925	2.5 PM	247KGXW
HC	24E	1850.0 - 1910.0	0.344	2.5 PM	244KG7W
HC	90	816.0 - 824.0	0.103	2.5 PM	1M28F9W
HC	22H	824.0 - 849.0	0.122	2.5 PM	1M29F9W
HC	24E	1850.0 - 1910.0	0.217	2.5 PM	1M29F9W
HC	24E	1850.0 - 1910.0	0.217	2.5 PM	4M14F9W
HC	27	1710.0 - 1755.0	0.15	2.5 PM	4M18F9W
HC	22H	824.0 - 849.0	0.122	2.5 PM	4M13F9W
HC	24E	1850.0 - 1910.0	0.209	2.5 PM	17M9G7W
HC	24E	1850.0 - 1910.0	0.182	2.5 PM	17M9D7W
HC	27	1710.0 - 1755.0	0.145	2.5 PM	17M9G7W
HC	27	1710.0 - 1755.0	0.126	2.5 PM	17M9D7W
HC	22H	824.0 - 849.0	0.123	2.5 PM	8M97G7W
HC	22H	824.0 - 849.0	0.098	2.5 PM	8M97D7W
HC	22H	824.0 - 849.0	0.102	2.5 PM	4M50D7W
HC	27	2500.0 - 2570.0	0.257	2.5 PM	17M9G7W
HC	27	2500.0 - 2570.0	0.214	2.5 PM	17M9D7W
HC	27	2500.0 - 2570.0	0.204	2.5 PM	37M7G7W
HC	27	2500.0 - 2570.0	0.219	2.5 PM	32M9G7W
HC	27	2500.0 - 2570.0	0.159	2.5 PM	37M8D7W
HC	27	2500.0 - 2570.0	0.174	2.5 PM	32M9D7W
HC	27	699.0 - 716.0	0.071	2.5 PM	8M94G7W
HC	27	699.0 - 716.0	0.062	2.5 PM	8M94D7W

HC	27	777.0 - 787.0	0.087	2.5 PM	8M93G7W
HC	27	777.0 - 787.0	0.069	2.5 PM	8M94D7W
HC	27	777.0 - 787.0	0.071	2.5 PM	4M50D7W
HC	27	704.0 - 716.0	0.071	2.5 PM	8M96G7W
HC	27	704.0 - 716.0	0.058	2.5 PM	8M96D7W
HC	24E	1850.0 - 1915.0	0.191	2.5 PM	17M9G7W
HC	24E	1850.0 - 1915.0	0.195	2.5 PM	8M97G7W
HC	24E	1850.0 - 1915.0	0.162	2.5 PM	17M8D7W
HC	90	814.0 - 824.0	0.105	2.5 PM	8M95G7W
HC	90	814.0 - 824.0	0.087	2.5 PM	8M96D7W
HC	27	2305.0 - 2315.0	0.2	2.5 PM	8M98G7W
HC	27	2305.0 - 2315.0	0.166	2.5 PM	8M98D7W
HC	27	2305.0 - 2315.0	0.17	2.5 PM	4M50D7W
HC	27	2496.0 - 2690.0	0.309	2.5 PM	17M9G7W
HC	27	2496.0 - 2690.0	0.269	2.5 PM	17M8D7W
HC	27	2496.0 - 2690.0	0.224	2.5 PM	37M7G7W
HC	27	2496.0 - 2690.0	0.178	2.5 PM	37M7D7W
HC	27	2496.0 - 2690.0	0.186	2.5 PM	28M6D7W
HC	27	1710.0 - 1780.0	0.145	2.5 PM	17M9G7W
HC	27	1710.0 - 1780.0	0.126	2.5 PM	17M9D7W

Power output listed is ERP for bands below 1 GHz and EIRP for bands above 1 GHz. This device contains functions that are not operational in U.S. Territories; this filing is only applicable for U.S. operations. This device supports LTE bandwidths of: 5/10 MHz modes in Band 13, Band 17 and Band 30; 5/10/15/20 MHz modes in Band 7, Band 41, and Band 66; 1.4/3/5/10 MHz modes in Band 5, Band 12 and Band 26 (814-849 MHz); 1.4/3/5/10/15/20 MHz modes in Band 2, Band 4 and Band 25. In addition this device supports Carrier Aggregation in the Uplink in Bands 7 and 41 with maximum aggregate bandwidths of 40MHz (20+20). For satisfying FCC RF exposure compliance requirements, body-worn operations are restricted to belt-clips, holsters or similar accessories that have no metallic component in the assembly and must provide at least 5 mm separation between the device and the user's body. The highest reported SAR for head, body-worn accessory, wireless router, and simultaneous transmission exposure conditions are 1.14 W/kg, 1.08 W/kg, 1.08 W/kg, and 1.56 W/kg, respectively. HAC Rating M3/T4-2011. Some T Coil tests have not been performed as permitted by the Commission policy.

HC: This equipment complies with the hearing aid compatibility technical requirements of Section 20.19 of the rules.